

WHAT IS CLAIMED

1 1. A connector assembly for coupling a conduit to an electrical device
2 comprising a body having an end with an outer edge and a threaded exterior surface, the
3 connector assembly comprising:
4 a nut comprising a first angled end, a second threaded end, and an inner cavity
5 defined between the first angled end and the second threaded end, the nut being configured to
6 be threadably attached to the threaded exterior surface of the body;
7 a first member comprising a first edge, a second edge, and being positioned within the
8 cavity and configured to enclose the conduit when the conduit is connected to the body;
9 a second member comprising a first edge, a second edge, and being positioned within
10 the cavity and configured to enclose the conduit when the conduit is connected to the body;
11 and
12 a third member comprising a first edge, a second edge, and being positioned within
13 the cavity and configured to enclose the conduit when the conduit is connected to the body;
14 wherein, when the nut is threadably attached to the body, the first edge of the first
15 member slidably mates with the first angled end of the nut, the second edge of the first
16 member is in contact with the first edge of the second member, the second edge of the second
17 member is in contact with the first edge of the third member, and the second edge of the third
18 member slidably mates with the outer edge of the end of the body.

1 2. The connector assembly of claim 1 wherein the first member comprises a
2 compression ring, the second member comprises a friction washer, and the third member
3 comprises a sealing ring.

1 3. The connector assembly of claim 1 wherein the first member includes a first
2 wall including the first edge of the first member, a second wall including the second edge of
3 the first member, and a top wall, and, when the nut is threadably attached to the body, one or
4 both of the first wall and the second wall are in a penetrating contact with an outer surface of
5 the conduit.

1 4. The connector assembly of claim 1 wherein the third member comprises the
2 first edge of the third member, the second edge of the third member, a third edge connecting
3 the first edge of the third member and the second edge of the third member, and a fourth edge
4 connecting the first edge of the third member and the second edge of the third member, and,
5 when the nut is threadably attached to the body, the third edge of the third member is
6 compressed against the conduit.

1 5. The connector assembly of claim 4 wherein the fourth edge is compressed
2 against the nut.

1 6. The connector assembly of claim 1 wherein the second member includes a
2 third edge connecting the first edge of the second member and the second edge of the second
3 member and, when the nut is threadably attached to the body, the third edge of the second
4 member is compressed against the nut.

1 7. The connector assembly of claim 1 wherein the second member has a
2 triangular cross-section.

1 8. The connector assembly of claim 1 wherein the second member has a
2 rectangular cross-section.

1 9. The connector assembly of claim 1 wherein the first member comprises a
2 sealing ring, the second member comprises a friction washer, and the third member
3 comprises a compression ring.

1 10. The connector assembly of claim 1 wherein one of the first edge of the first
2 member and the second edge of the third member forms a fluid-tight seal against the conduit.

1 11. The connector assembly of claim 1 wherein one of the first edge of the first
2 member and the second edge of the third member forms an electrical ground continuity
3 between the conduit and the nut.

1 12. The connector assembly of claim 1 wherein the conduit comprises an EMT
2 conduit.

1 13. The connector assembly of claim 1 wherein the body comprises an EMT
2 body.

1 14. A method of coupling a conduit to an electrical device, the method
2 comprising:

3 providing a body having an end with an outer edge and a threaded exterior surface;

4 providing a conduit;

5 providing a connector assembly comprising:

6 a nut comprising a first angled end, a second threaded end, and an inner cavity
7 defined between the first angled end and the second threaded end, the nut being
8 configured to be threadably attached to the threaded exterior surface of the body,

9 a first member comprising a first edge, a second edge, and being positioned
10 within the cavity and configured to enclose the conduit when the conduit is connected
11 to the body,

12 a second member comprising a first edge, a second edge, and being positioned
13 within the cavity and configured to enclose the conduit when the conduit is connected
14 to the body, and

15 a third member comprising a first edge, a second edge, and being positioned
16 within the cavity and configured to enclose the conduit when the conduit is connected
17 to the body; and

18 threadably attaching the nut to the body.

1 15. The method of claim 14 wherein threadably attaching the nut to the body
2 causes the first edge of the first member to slidably mate with the first angled end of the nut,
3 the second edge of the first member to contact the first edge of the second member, the
4 second edge of the second member to contact the first edge of the third member, and the
5 second edge of the third member to slidably mate with the outer edge of the end of the body.

1 16. The method of claim 14 wherein the first member comprises a compression
2 ring, the second member comprises a friction washer, and the third member comprises a
3 sealing ring.

1 17. The method of claim 14 wherein the first member comprises a sealing ring,
2 the second member comprises a friction washer, and the third member comprises a
3 compression ring.

1 18. The method of claim 14 wherein the first member further comprises a first
2 wall including the first edge of the first member, a second wall including the second edge of
3 the first member, and a top wall, and threadably attaching the nut to the body further
4 comprises forcing one or both of the first wall and the second wall to penetrate at least a
5 portion of an outer surface of the conduit.

1 19. The method of claim 14 wherein the third member further comprises the first
2 edge of the third member, the second edge of the third member, a third edge connecting the
3 first edge of the third member and the second edge of the third member, and a fourth edge
4 connecting the first edge of the third member and the second edge of the third member, and
5 threadably attaching the nut to the body further comprises compressing the third edge of the
6 third member against the conduit.

1 20. The method of claim 19 wherein threadably attaching the nut to the body
2 further comprises compressing the fourth edge against the nut.

1 21. The method of claim 14 wherein the second member further comprises a third
2 edge connecting the first edge of the second member and the second edge of the second
3 member and threadably attaching the nut to the body further comprises compressing the third
4 edge of the second member against the nut.

1 22. The method of claim 14 wherein threadably attaching the nut to the body
2 further comprises forcing one of the first edge of the first member and the second edge of the
3 third member against the conduit to form a fluid-tight seal against the conduit.

23. The method of claim 14 wherein threadably attaching the nut to the body further comprises forcing one of the first edge of the first member and the second edge of the third member against the conduit to form an electrical ground continuity between the conduit and the nut.

1 24. The method of claim 14 wherein the conduit comprises an EMT conduit.

1 25. The method of claim 14 wherein the body comprises an EMT body.